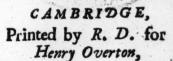
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WARM BEERE,

OR

A TREATISE WHEREIN
is declared by many reasons,
that Beere so qualified
is farre more wholesome
then that which is
drunke cold.

With a confutation of such objections that are made against it; published for the preservation of health.



And are to be fold at his shop entring into Popes-bead Alley out of Lumbard-street in London. 1641. ARM BEHRES Warm MIDAL anole 1. A Land Transfernos 1389 1 DUR Lay out of Lan-Va London. 613.39

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To the Reader.

Alen hath a faying in his fecond book De facultat naturali, in the end of his 9.

hapter, and that is this; Stuium corum laudandum est qui el explanant recte dicta à facentibus, vel supplent si quid missum sit ab eis: The which hope, gentle Reader, will be protection for this my book gainst such as think nothing rell done which they do not hemselves, for that I endeaour to do both these things hich Galen commendeth, that

T 3

that is, explain some point sel heretofore writ by our learn I h ed Masters and not regarded in o and also to adde some thing ing before not thought upon biring them. And although I hav the no great hope by this mall t writing to work a general good, because errours lon used make us both blind an deaf, be the truth never fo ap parent, not unlike the owl, a Aristotle saith, whose sigh the fun-beams dull; yet doubt not but some will tak it thankfully, and making ul will take benefit thereby, a furing themselves I write no thing here, which I hold no for the truth, and have mad long experience of, both b n

e point felf, and divers of my friends. I have therefore published it garded in our native tongue, respecting a generall good, referpon bring the commendations of I have the thing to the proof, and us this mall to the Almighty. Amen. general ars longing an er so ap

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fe fight; yet will tak king uf eby, a rite no hold no

that is, explain some point sel heretofore writ by our learn I h ed Masters and not regarded in o and also to adde some thing ing before not thought upon biring them. And although I hav the no great hope by this mall t writing to work a general good, because errours lon used make us both blind an deaf, be the truth never fo ap parent, not unlike the owl, a Aristotle saith, whose sigh the fun-beams dull; yet doubt not but some will tak it thankfully, and making ul will take benefit thereby, a furing themselves I write no thing here, which I hold no for the truth, and have mad long experience of, both b n

point felf, and divers of my friends. r learn I have therefore published it garded in our native tongue, respectthing ing a generall good, referpon biring the commendations of I hav the thing to the proof, and us his mall to the Almighty. Amen. general rs lon ind an er fo ap owl, a fe figh , yet vill tak king ul

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Acadomententente de alembração de aproposação de alembração de alembraçã jua firm The preface of the subjustifier to the Reader. Subj min and Hristian and beloved Reader, hearing of use this ensuing Treatise the of warm beer lying it, in the hand of a worthy Gentle-mig man and friend of mine, I made wou bold to fend to him for it; who rien hearing of my practice accord. const ing, did very kindly send it to drin me: The which, after I hadreaded for the same, and considered the ar- whos guments brought for the proof confer thereof, and weighed them toge not f ther with mine own experience comm in the use of it, I was thereby will i exceedingh

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exceedingly strengthened in my judgement, and abundantly confirmed in my custome. Then the speaking of this treatise and the Subject matter thereof to some of mine acquaintance and friends, eloved and what benefit I found by the ng of use thereof, they desired to see reatise the same; and when they had read lying it, they intreated me that it Genile-might be printed, and that I I made would declare mine own expe-

; who rience which I had found by accord. constant use of the said warm dit to drink, that it might be published adread ed for the generall good: to the ar-whose request I could not but e proof consent. And therefore I shall m toge not speak any thing by way of erience commendations of this book, but thereby will leave it rather to the judicaling!

cious edingl

cious Reader and true practicer thereof; and will onely relate unto you what I have found true by long experience. First, heretofore when I did alwayes drink cold beer, and now and then a cup of wine, I was very often troubled with exceeding pain in the head, which did much distemper me; also with stomach.ach, tooth-ach, cough, cold, and many other Rheumatick diseases: But since my drinking my beer (small or strong actually hot as bloud, I have never been troubled with any of the former diseases, but have alwayes continued in very good health constantly (blessed be God) yet I use not to drink wine, because I find that hot beer (without

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(without wine) keepeth the stomach in a continuall moderate concoction: But wine and ho beer doth over-heat the stomach, and inflameth the liver, (especially in cold stomachs which have hot livers) and men oftentimes drinking wine to heat their cold stomachs, they thereby also influme their livers, and so the helping of the cold stomach is the means of the destruction of the liver: But hot beer doth prevent this evil, for it heateth the stomach and causeth good digestion, and nourisheth and strengtheneth the liver. And that hot beer actually made hot doth cause good concoction, you may conceive it by this comparison: The stomach is compared

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compared to a potboyling over and the fire with meat; now if you Rig put cold water therein it ceaseth Co the boyling, till the fire can o-der vercome the coldnesse of the the

water, and the more water you ma put in, the longer it will be be- ove fore it boyl again, and so long din time you hinder the meat from after being boyled: Soit is with the sam stomach. If you drink cold beer, dige you hinder the digestion of the then meat in the stomach; and the not more cold you drink, the more cool you hinder it. Alfo, cold water with doth not onely hinder the boyl. wou ing of the meat in the pot, but befo also causeth the meat to be hard trar so that if it should boyl six ing houres longer then ordinary not t yet still the meat will be hard doth and

g over and never tender and soft: vif you Right fort is with the stomach. ceaseth Cold beer doth not onely hine can o-der concoction, but also harden of the the meat in the stomach, as you ter you may sec by them which drink ll be be-over much cold beer at or after so long dinner or supper; six houres nt from after they will vomit up the vith the same meat again, as raw and unld beer, digested as if it were but even of the then caten: which they could and the not have done, if they had not he more cooled their stomachs so much d water with cold beer : because nature be boyl, would have digested the meat t, but before that time. But on the cone hard trary, hot water put in a boyloyl fix ing pot with meat, hindereth dinary not the boyling thereof, neither be hard doth make the meat hard, but and continueth

continueth the boyling thereofeat, nourishing the meat with sufficiency of liquour, and maken it so for and tender fit to be eater if to the stomach: It hindereth not be concoction, nor hardeneth the meat in the stomach, but contracted in the stomach, but contracted in and maketh it sit for the nourishment of the whole body cper Againin the second place, when this hot heer is excellent and

this hot beer is excellent goore to for the keeping of the stomac operation good order for concotton ame and consequently good health peir so it is most excellent for thure. quenching of thirst. For I have ald to not known thirst since I have set used hot beer: let the weather be the

never so hot, and my wor ethe

thereof eat, yet have I not felt thirst thereof formerly. Nay although I th suffice eaten fish or flesh never so I makei, t which ordinarily do cause be eater. be eater if and drinesse, yet I have hot been freed from it by the use of erethmet beer, and have been no eneth thore thirstie after the eating concoctifich. And the reasons make it tor thanisest being confirmed by cole body eperience, if we consider place, ben a man is thirstie, there ent goore two master-qualities which flomaco predominate in the stomach, acoction amely heat and drinesse, over d health, heir contraries, cold and moit for thure. When a man drinketh ar I has a second his thirst or I havold beer to quench his thirst, ce I have fetteth all foure qualities to-ocather bether by the ears in the stomy wor ether by the ears in the stogrea

The Preface. mach, which do with all vignies lence oppose one another, an mach cause a great combustion in the make stomach, breeding many distemble in pers therein. For if heat 3 sheat the mastery, it causeth instance the mation through the whale body which

but if cold, it surfeteth the bojes i dy, and bringeth a man int bron fluxes and other diseases: Busine, hot beer prevents all these dan her her gers, and maketh friendshipuick between all these enemies, vizuater

between all these enemies, vizater hot and cold wet and drie in the ne stand the stand the stand the stand the coldnesse of the beer is taken a way by actuall heat, and mad ecause as hot as the stomach, then head hath no exposite, his enemi. hath no opposite, his enemithen

cold being taken away, & ther stake onely remains these two enelly ho

mie

all vignies, dry and wet in the stoer, an mach: which heat laboureth to distement in this example. In fire there heat 2's heat and drinesse: and in wainflamer there is cold and moisture,
ale body which are opposite to the qualib the boies in the fire: Now if you nan inthrow the cold water upon the : Bufre, you set these opposites togees vizater and throw thereon, and je, in the ne bucket full of bot water ben the nell acceptance of the water taken a uckets of cold. The reason is, and madecause of the extreme oppositi-hen hed no between hot and cold: but enemi when the coldnesse of the water & ther's taken away and it made actuwo enelly hot, then hot water to hot fire

fire agreeth as like to like, an Se peace being made between hwater and cold, the heat makeswill friendship between wet and dry he a Also you may see wet amer to dry easily reconciled by heat, i will another example: Take a driust piece of wollen cloth, and through it upon coldwater, and you shalo light

fee how wet and dry will operon pose one another: the water winut on not let the cloth sink into it, ansee by the dry cloth will not let the was as ter enter into it; but the colfrien water will slide off from the drever cloth, and the cloth will swin when upon the water: But if the water be be made hot, and the clothrum thrown thereon, they will immediately embrace one another hir su

without any opposition.

ing .

ike, an So likewise, if you put cold; ween hwater upon dust, wet and dry maketwill so oppose each other, that and drythe dust will not suffer the wawet anter to sink into it, but the water heat, iwill trull up and down on the e a drust like quick-silver: but if ed throughe water be hot, and put never you shalo lightly upon the dust, it will will opecontinently sink into it withter wiput opposition. And thus you oit, ansee by these examples how heat t the was as it were a means to make the colfriendship between wet and dry. o the dreven so it doth in the stomach: Il (windhen one is exceeding thir ftie, he watethe beer being made hot and then ne clotdrank into the dry stomach, it vill immmediately quencheth the anotherhirst, moistening and refreshing Nature abundantly. But

But some will say, Cold beer is very pleasant to one that is den

thirstie: I answer it is true: But which pleasant things for the most for h part are very dangerous. Coldwen beer is pleasant when extreme cause thirst is in the stomach, but beca "hat more dangerous to the inth nealth? How many have you ston known & heard of, who by drin-conf king of a cup of cold beer in ex-some treme thirst, havetaken a sur-gone fet and killed them selves? What wou more pleasant then for one that live hath gone up a hillin summer brea time and is exceeding hot, to sit was and open his breast that faile cool aire may blow therein? able And yet how dangerous is it? with For a man in very short time, blon

forgetting himself, taketh a sud- drin

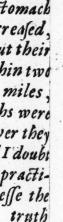
den cold

The Preface. old beer that isden cold, and surfets thereon, rue: But which costeth his precious life e most for his pleasant aire. Therefore s. Coldwemust not drink cold beer, bextreme cause it is pleasant; but hot beer, ch, but because it is profitable, especially to the in the Citie for such as have cold ve you stomachs, and inclining to a y drin-consumption. I have known in ex- some that have been so farre a sur-gone in a consumption, that none What would think in reason they could ne that live a week to an end: their mmer breath was short their stomach to fit was gone, and their strength t that failed, so that they were not erein? able to walk about the room is it? without resting, panting and time, blowing: they drank many hot a sad- drinks and wines to heat their den cold stomachs, and cure their diseases,

diseases, especially sweet wines truth but all in vain: for the moriso h. wine they drank to warm their quest stomachs, the more they inflamy e med their livers, by which no vi means they grew worse and he p worse increasing their disease selves But when they did leave drink fatisfi ing all wine, and betook them to th selves onely to the drinking of adde hot beer so hot as bloud, withinand f a moneth their breath stomach and strength was so increased, that they could walk about their garden with ease, and within two moneths could walk 4. miles, and within three moneths were perfectly made well as ever they were in their lives. And I doubt not but many that have practiced this thing can witnesse the truth

wines truth of these as well as my self:
he more so having performed the remether quest of my friends to set down
y inflamy experience and the reasons
which moving me, I leave it now to
rse anothe practice of such as by themdisease selves or their Physicians are
drink satisfied of what use it may be
k them to them, desiring the Lord to
king of adde his blessing, for his glory
within and for their comfort. Amen.

F. W.





In commendations of WARM BEER.

be 13

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fible

Since reason doth and ought to bear the sw Vain grandames saysaws ne't mall maken

think,
That rotten teeth come most by warmed dri
No grandsir, not if you had us'd to warm

Your mornings draughts, as I do, farre harm

Your raggie lungs had felt; not half fo foon,
For want of teeth to chew, you'd us'd atrec

Grandame, be filent now, if you be wife, Left I betray your thinking niggardize: I wot well you no pyfick ken, nor yet

The name and nature of the vitall heat.

T was more to fave your fire, and fear the Your pewter cups should melt or smokifie stima

Then skill or care of me, which made you and the dead, and stamp to see me warm my bees see de Though Grandstre growl, though grands omer

That man unwife that drinks his liquidads

W. B.

And reatise of VV arm ns of Drink.

all make

varmed dri

If fo foon,

be wife, rdize:

o, farre

CHAP. I.

andfires in he use and necessitie of drink. ear the fw

Ot without great judgement the poets feigned Prometheus to have ou'd us'd htred into the heavens, and y Pallas help to have rought from thence celefti-

or yet ll heat. I fire, naming one thing and imokifie timating another : nor with de you m my beeffe dexteritie of wit doth omer in his eighth book of is his liquiads call a method in wring σειρην χρυσείην a golden iain, seeing that it is asimfible without it to declare

A any

fearch through all the fecrmen places of the Labyrinth with Ctu out Ariadnes clue of yarias i And feeing a method dotold require his definitions, diviold fions, subdivisions, and suc Fi like, in a brief yet ampheces manner, fo as nothing be fon v perfluous or wanting, I whath do my good will to speak at effit. yet in as few words as I may Se

it is written, not affecting chette riofitie as a thing onely melies, cold for the learned. You shall understand the Th

fitting my speech agreeabmake to the multitude for whomade

that the whole contents leafor this book depend onely uectio on this question; Which he

mo

of

ne feerment of health, drink made with withchually hot by the fire, or of yari as it is now used) actually do dotold, and sometimes made in divold.

and suc First therefore I think it amprecessary to shew the occasing be son why provident Nature 3, I whath imposed a kind of nepeak attessitie of drinking upon us. I may Secondly to shew and

greeabmake manifest whether drink or whomade hot doth as well or ching chetter supply those necessiely melies, as drink being actually told or made cold?

and the Thirdly to examine the tents reasons and confute the obnely uections which are given for which he maintenance of actuall mo A 2 cold

A treatife of

thirft

cold drink. Fourthly to fet down agle w fuch discommodities as dbe th

ligions.

and may arise from the ulof th thereof. unive

Fifthly to shew the goothree and profit that redounds tider t the body by the use of actual Lib. hot drink. is,un

Lastly to make it manifest fire of that it is no new device, buinftre a thing which hath been ithen common use amongst the Ro Th manes and Grecians, and is ambeing hath been used alwaies aare c

the 1 Understand then that acmad cording to the rules of phyone, fick, drink is used for threathe purposes. First to allay oumore

mong whole nations and reus be

thirft

to

thirst; secondly to interminown algle with our food; thirdly to s as dbe the vehiculum and carrier the ulof the nourishment into the univerfall bodie. Which goothree are comprehended ununds tider two, according to Galen, factual Lib. 1. De usu partium, that is, under the allaying our deanifest fire of drinking, and being the ce, buinstrument and means to boil been ithe meat in the stomach. the Ro The allaying then of thirst d is an being the first cause why we aies aare constrained to drink, let and reus begin with it, and examine the reasons which may be hat acmade for the profit of the of phyone, and the offence of the r threother. The which we shall ay ou more easily do, if we first call

thirst

A treatise of

to remembrance what thirdright

This word Sitis, which it rying english signifieth thirst offect drought, according unto PlaWhito is nothing else but a desirabeing of drink, for these be his our words, Sitis verò est concupisthis centia potionis, Thirst is a dethe sire of drink; although Ariman stotle in his book De Republit mora cited by Athenaus, saith appredrought is a desire of hot ois so

De anima defineth it to be the oppodesire of cold and moisture self His words are these, Sunsoph autem sames & sitis appetitus cern

quorum fames quidem appetituithat est rerum calidarum & sicca bette rum; sitis verò, humorem & body

frigul

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Line .

nat thir frigus efficientium, Hunger is in appetite after hot and which inrying, but thirst of things hirst offecting moisture and cold. nto PlaWhich opinion of Aristotle, a desirbeing clean opposite unto be hipur argument handled in oncupishis treatise, doth seem at is a dethe first blush so fully to h Arimanifest the matter, as that Republik may seem great folly to , faithapprehend any thing which hot ois fo merely contradictory, s booland no little impudencie to be the ppose my self as of my isture self against so great a philo-Sunfopher: And therefore it, conetitus cerneth me either to prove petituthat drink actually hot doth sicca better cool and moisten the rem body then cold, or else Arifrigu A4 Rotles

ly to pretend: The which which think may easily be appredum, hended and collected, if we by m will weigh the tenth sectionaltho in his Problemes; where in nied quiring what the causeproc should be why other creathe tures do sooner prey of and find eat dry meat then moist; bu midi man more often moist therhis j dry: He answereth thus, besture cause man is most hot, which the causeth him to desire to bemuch cooled. Whereby it is to be lively noted, that he onely maket drink mention of moisture to cooled him, the which agreeth with furth Galen in his book and the process of the cooled with the cooled the cooled with the cooled the cooled to be a cooled to be cooled to Galen in his book of une matte quall temperatures where real lireal he doth prove the occasion literal of thirst to be drought, hich which is remedied per humiappredum, not per frigidum, that is, if we by moisture, not by cold. For sectional though it cannot be deere in nied but that heat doth caus procure thirst, yet look into creathe reason, and you shall of and find it is propter inopiam huft; bu miditatis, because it hath not At therhis just proportion of moius, besture; which causeth us in which the hot time, if we labour to be much whereby we excefto belively fweat, to defire to maket drink, for the cause above alto cooledged. But to enter into h with further consideration of the of une matter, let us examine the where reasons why cold should be A 5 necessary he

necessary in allaying thirst It appeareth to me, that it iddition

either to the end to extinuages guish it, or to mitigate it he guish it by an hat it means it cannot. For let an hat it man that is exceeding dry eat any thing that is never so eat any thing that is never fat t flure joyned with it, and hold shall find by experience the old, it may well choke him, but in no fort allay his drought hard for mitigating hard for mitigating hard for reason that drought joys ed by the drought has it was a sed to drought has a se ed to drought, be it never led be cold, can work that effect farre let the Reader judge, bein the oclean against the principle. clean against the principle Galen.
of learning; Nam omne taloto l

thirst dditum tali, facit id ipsum extinagis tale, For every like joingate in the ground of its likenesse, he ground with moint of the ground with moint it it it is ground of its likenesse, yet effect to ground of its likenesse, he ground ground with moint it it it it is ground of its likenesse, yet effect to ground of i

likewise, which is, that omfasis ne repentinum natura inimhoul cissimum est, All sudden altehe h rations are contrary to nallayi

ture: and therefore cold beillet ing added to heat, unlesse wher were in a farre more remisexper degree then the heat, dothifton work great inconveniencesampl or endanger the life; as it is teth t be seen in those who drinkof Ve ing cold drink being hot famour fick to the death. The otherold reason is, for that it is need. I possible that every man, wo Dolph man or child, who being ho France defire drink, can upon evein hi ry motion fo proportion thhe w cold that it shall just fit thelema degree of heat; and then if tenni groupe too small by his antiperinat onfasis it hurteth where it inimhould help: if greater then en altehe heat requires, in stead of to nallaying the heat it utterly old beilleth it. For the testimony nlesse whereof, besides our daily remisexperience, there be infinite , dothistories extant; as for exiencesample, Paulus Fovius wris it is teth that Candella Scala prince drinkof Verona being hot in his arnot falmour drank out of a fountain e otheold water, and presently dit is noed. He writeth also that the in, wo Dolphin of France sonne to ng ho Francis the French king, then on evein his time being, although ion thhe were a lustie strong Genfit theleman, yet he being hor at en if tennis, and drinking cold drin drink fell fick and died. The saccollike happened to Pompein oint Columna who was Vice-Roled in Naples for Charles the ot drifth. Amatus Lusitanus all cirexcellent physician in his equinatime, in his Centurie reher drink feth three histories of young Yomen who died drinking colchat Nater and wine, in their necessitation.

CHAP. II.

allayi

to be

That actuall hot drink doting quench the thirst as well as foreast cold drink or better.

But because I may observe thirst thirst found what thirst is to be saith it termed according to the ancien

d. This according to the second ce-Roled in this place, shew that les the drink doth better satisfie in hi equired, then actual cold reherdrink. youn You have therefore heard thei necessitie of drinking upon us

for two causes: the one for allaying our thirst, the other to be a means to boil, and bedoting boiled to carry and ll as spread our nourishment universally in our bodies. As touching the first point,

r. oferv thirst being drinesse requihave reth his contrary, as Plato to be faith in his aforenamed book, which which

cien

16 A treatife of which is moisture for his yned tidote and help. But to propree that hot drink doth foon ribin perform that, I will use to the arguments. omm 1. Whatsoever doth morank fpeedily carry and dispersite moisture into the bodie or podoth best and soonest culken learned to be the bodie of the bodies of the drinesse. But heat do Oui fpeediliest carrie and est his. Chualliest distribute moeing sture; Therefore it do inate best help drinesse. ite, a My minor I prove out Aristotle, where he faith, ordin caliditate est vis aperiendi fo ualiti
tissima, In heat is a mo
strong force of opening. A
gain Galen in his book de f
cultatibus, knowing that he
joyne

warm drink. r his ynedwith liquour doth en-to propree the quicker passage, pre-foon ribing a draught of water use the disease of the stone, ommandeth that it be oth mounk hot: which also is one dispersible reasons why we make bodieur potions to purge, to be do Our fecond argument is definis. Whatfoever moisture it do inated for it doth best uout ite, and effectualliest enter , doth soonest work aca mo nite it felf with heat, and fo hat he had he h joyng herefore it doth moit joyng ually allay our thirst. My

My minor I prove out se in Aristotle, where he saith, shich i milia similibus gaudent, the is is, Like rejoyce in their likonest

and in his fecond book by c generat. & interitu, where th all sheweth that the liker thin other be the fooner they passe inying, one another and unite : fum re faith he, Que inter se cognation con ne continentur corum transitue ex a admodum velox est; quà quefact. dem si carnerint est tardato on propterea quod facilius umariety quam multa commutatunely c Things agreeing in qualitianing their passage from one towo or nother is swift, which agree con ment if they want it is florarietic because the more like honstr things be the fooner they ready e out iffe into one another. By ith, shich it is apparent my mint, ther is true, That heat doth eir likonest unite with heat, and ook by consequence hot drink here it allayeth thirst. And in thin other place he hath this asse inying, Quesunque ex uno in te : fum recedunt, eadem uno tanognatim consumpto gigni; quacunransine ex duobus ad unum pluribus na quefactatis, Things passing tards to one another by one conis unariety are united, one being sutatunely consumed; but things malitiassing into one another by ne towo or more, are united after agree corruption of more cons florarieties. Which plainly deike honstrateth that drink being they ready made warm doth fooner

A treatife of

20

fooner passe, enter, and alle nou fthe tl thirft.

As concerning the fecor dot point, that is, That it dook D best boil the meat in the sid in l mach, and from thence fertural. for a generall vehiculum ngrov

prex c reason in this fort. That liquour is more fit ratio

be used for boiling the mon of in the stomach, that is magener aiding to good concoction

drink actually hotetural more affifting to good cod me coction then cold: Therefor sup heref

more fit to be used. My minor I prove in thy ho fort: Concoction is nothild.

else but Alterationutrientis ay tl propriam qualitatem ejus qu mea

nutritur, The alteration me p

of

rex corruptione unius fit zere fit ratio alterius, by the corrupne mon of one thing another is magenerated: but this putrecoction is soonest and most hot turally performed by heat

od cod moisture, which both nerefde supplied in warm drink: herefore drink made actu-

in thy hot, is more affifting then nothild. But understand by the ientisay that this putrefaction jus qu meant, not as Galen in ation me places taketh putredo to

be

A treatife of be mutatio substantia which trescentis corporis ad hing b teritum ab aliena caliditatropor a change of the substanterefo of the body putrifying ed. A its own destruction by tha te heat of another, but it do ropor corrumpere, manente semper sedged stantia rei eadem, mutatis nanife lummodo accidentibus, coet I w rupt, the fubstance remaining withor ever the same, the accidenturalis onely changed: but to tarata c proof of our miner which fibi pr That putrefaction is foon Natura performed per humidum and we calidum, and fo confequentifting ly better affifted by warnable drink then by cold, Galcond b faith that concoction is pedescril formed by naturall heafaith,

which

tia thich naturall heat is noad hing but a temperate heat lidita roportioned with moisture: ibstance fore my minor is proying ed. And that naturall heat by to a temperate heat rightly it do roportioned, as I have alper sedged, although it be so proof, nanifest as it needs no proof, coet I will prove it by Galens naini uthoritie where he faith, Nacidenuralis calor est recta & mento tarata caliditas que in humido hich shi proportionato consistit, soon Naturall heat is an equall and well measured heat conquentifting in moisture proportiowarnable unto it: and in his fe-Galcond book Deratione victus, is pedescribing what a fever is he heafaith, that an ague is mutatio whid caloris

is as much to fay, as the altrate, i

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ing of a temperate moist houre of into a fiery drie burning: a The Trincavell in his epistle ther b medicina treating of concodion, v on of the stomach faith, ther ve primum & proximum interove num ejus instrumentum q Co ille utitur in concoquendo and fi Suus naturalis calor, qui mach. est res aliqua diversa & alient to à natura & ejus substantia: cier, as is calor est temperatus non excore f dens rationem natura illius, rt dot its first immediate interna rinca instrument, which it uset is Con

in digestion, is its own naturise w rall heat, which is not a thinne 't' different and alien from hinach.

nature and substance; ano drir

caloris nativi in ignem, whilis h

, whihis heat naturall is tempee althate, not exceeding the naoist houre of the thing it self. ing: a Then as concerning the oiftle ther branch of the proposi-

oncodion, which is, That it is a fitth, ther vehiculum, I this way n intorove it.

m q Cold drink is apt to stop endo and stay long in the stoqui mach, and therefore not so r alient to be a vehiculum and cartia: dier, as that which doth with on exconore facilitie passe: and that lius, re doth so, I prove it out of nterna rincavell in his 3. book of uset is Consilia, where giving adn natuise with other physicians to a thin ne that had a windie stoom hinach, he forbad cold water ; and drink, because saith he,

24 caloris nativi in ignem, which this h

is as much to fay, as the alter rate, ing of a temperate moist her ture o into a fiery drie burning; an Th Trincavell in his epistle D ther medicina treating of concoci tion, on of the stomach faith, that ter v primum & proximum inter prove num ejus instrumentum qui Co ille utitur in concoquendo e and f suus naturalis calor, qui non mach est res aliqua diversa & alien fit to à natura & ejus substantia: & rier, a is calor est temperatus non exce more dens rationem natura illius, rei it dot its first immediate internal Trinca instrument, which it useth his co in digestion, is its own natu vise w

rall heat, which is not a thing one 't different and alien from his mach. nature and substance; and to drir which this heat naturall is tempealter rate, not exceeding the nather ture of the thing it felf.

Then as concerning the ole D ther branch of the proposicost tion, which is, That it is a fitthat ter vehiculum, I this way

inter prove it.

Cold drink is apt to stop and stay long in the stomach, and therefore not so alient fit to be a vehiculum and carrier, as that which doth with more facilitie passe: and that it doth so, I prove it out of this Consilia, where giving admatus vise with other physicians to thing one that had a windie stom his mach, he forbad cold water and to drink, because saith he, this

being actually cold it doube ha

tarry long in the stomacus e before it passeth away. Buwhich because some perchance wil of act fay, it may be cold watefirst le doth fo, but cold drink douthoriti not, therefore heare whado ma Scola Salerni faith of ouremen beer. They fay it doth inflatbook o & obstruere, breed winaffirme stoppe, and thereforeure for

CHAP. 3.

unfit for a vehiculum: and becaufe

creature any heas Aga

Spanish

medies

The reasons and objections fichiridio the use of actuall cold drink are examined.

much for the point.

& made Now as touching the wholesouther third thing promised the gou doube handled in this book, let madus examine the reasons. Bushich are given for the use e wil of actuall cold drink, and watefirst let us alledge such audothorities (if there be any) as whato make any way for it. I of our member Plinie in is 28. in flat book of histories, his 4.chap. win affirmeth that it is against na-

reforture for us to drink hot drink, and because, saith he, No other creature doth use it, nor is there

creature doth use it, nor is there any heast but desires cold drink.

Again Bernardino Gomes a
Spanish physician in his Encold medies alloweth cold drink,
& made cold with snow, for a
g the wholesome remedie against

is ifed the gout, and morbus arthri-

have done if it had bee hurtfull, or a weakner of the canno fromach.

Monardus also in a treati matter he writeth of drugs the use came from the west Indian mainta commends cold drink, and ly this affirmeth hot drink destroisor us,

It is alledged that it be their not ter quencheth thirst, that doth t

helps concoction, where ferre, i

It is alledged cold drin & how is good and pleasing unto this to be tast of man, and so is niudge: hot.

It is alledged the finetheir for spirits fly away in the hears againing, whereby it nourished have or

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But

d nonot fo much. I bee That Plinie fo writeth I of the cannot denie, but with how little confideration of the reati matter let the reader judge; s the uleth no argument to dian maintain his opinion but onea, anly this, It is not fit nor good estroifor us, because bruit beasts love it not, which onely imitate it betheir naturall instinct; and so that doth thereby as it were inheresferre, that it is not naturall unto us. But how ridiculous drin& how unworthy a reason it nto this to be answered, let any man is njudge: for it is as much as to say because bruit beasts eat finetheir food raw, therefore it heais against nature for us to rishehave ours rosted or sodden:

But if I should so say, I doub! furth not but I should not be belied will ved. And therefore as small Fi cause is there to believe Pli- ses of nie in the other; for it is one and and the felf same reason. from

Secondly, whereas Bernar. dity dino Gomes the Spaniard in Trino the aforenamed place, not al. sel ledging any reason for his o. Thes pinion, might very well be partie answered without reason; ye dagra because it shall be seen how little credit his authority vel su ought to carry, and of how imbec small worth it is to be e de co steemed, I will endeavour to vel es give the reason, why it is! one, mere senselesse thing either influe so to affirm or write, unlesse onely for the avoiding of

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doubt further inconvenience, as I pelie will hereafter declare. small First gours and all disea-Pli ses of that kind depend on sone and grow most especially from the weaknesse and cru-1. rnar. dity of the stomach, which rd in Trincavell in his 96. counot al. sel doth make manifest. nis o. These be his words, Nulla ell be particula majore vim habet pon; yel dagram & id genus dolores prohow creandi quam ventriculus, qui vel suapte natur à fit crudior & ority imbecillior quam ut possit rehow . ttè conficere cibum ingestum, be e vel ex incongrua victus ratiur to one, No part conferres more it is influence to the breeding of ithe nleffe the gout and diseases of that of kind then the stomack:

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which either of its own nature is too crude and weak for to digest the meat, or else because of its incongruous power and virtue.

Now to prove that the stomach is faid to be rawer when as it wants heat, and that we use to call that raw which wants concoction by hear, heare what Fohannes Langius Fol. 75. writes:these be his words, Quicquid à calore nativo & congenita viscerum caloris temperatura non fucrit concoctum & elaboratum, id cum in corporis alimentum converti nequeat, crudum appellare Solet Hippocrates, Whatfoever is not well concocted by the naturall and connate

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connate temperature of heat in the bowells, seeing it cannot be changed into the nourishment of the body, *Hippo*crates useth to call it crude.

Confider then, gentle reader, if the gout be especially bred through the weaknes of the stomach for want of heat, how unfit a generall medicine cold water is, and what warrant Gomes his authoritie is for us: For although Galen giveth two reasons how the gout is bred, which are Imbecillitas articulorum, & affluxus materiei, imbecillifie of the joynts, and abundance of groffe humours; yet the principall is a bad stomach. But because

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I will not judge that a man place in any fort learned will fo much passe himself in writing, but upon some great reason moving him thereunto, I conceive he calling to mind Gatens words, where he faith, Vinnm potens nervolis particulis nocet. Strong wine hurteth the finewy parts; or peradventure Mesues where he faith, Vinum per se nocet articulis & nervis, Wine of it felf hurteth the joynts and nerves; giving this reason, because fundendo & attenuando maximo calore suo excitat fluxiones, by running through and attenuating it doth with its most powerfull heat provoke fluxes; and living in a place

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place where there was nothing but strong sack, thought of two evils the least was to be chosen, and knowing water could not fo vehemently pierce and carry fluxes, as those strong wines, advised water. But if this or some such like reason moved him not, I think it very abfurd for any man of learning to write, and too foolish for us to believe: and therefore you may understand that upon what occasion soever Gomes wrote, it is no warrant for us.

Thirdly, that Monardus writes hot drink destroies the liver, and cold contrarily helps, I cannot deny; but yet

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I will shew that in so saying he playeththe right Spaniard, who meaneth least the matter that he seemeth to speak plainest. For whereas in generall words he affirmeth hot drink to destroy the liver, he afterwards makes such an exception, as I think few at this day live who be not comprehended within fome one branch thereof: fo that he either faith nothing in his generall position, or else so little that few there be that it concerns. And that this is true you may judge by his exception following, where he faith that these here under excepted may best drink their drink actually hot, viz. cid

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old men, idle persons, whether it be in body or mind, and that have weak stomachs, or abound with raw and crude humours, all that have infirmities in their lungs or pipes of respiration, all that have weak backs or weak kidneys, all that be fubject to windinesse, all youth and young children. Judge now, indifferent reader, how many live in this age, who have not some touch of this exception. And although he seems to make it current (yea made cold with fnow) for them which have hot livers, I pray you how many be there of those that have not cold stomachs? And

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whereas he faith that cold drink cools the liver, I absolutely deny it, unlesse he means killing for cooling. And for proof I produce Galen upon one of Hippocrates aphorismes, where he saith, Aque frigide occursus aut vincit nativum calorem aut colligit; whereas hot drink by deoppilating doth eventilate it naturally, and so preserve it in temper: for I dare affirm where one hath his liver hotter then naturally fitteth without obstructions, thoufands have not; which that common disease at this day Flatus hypochondriacus doth plainly prove: and therefore

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fore Modus nardus authority is, let every one judge.

Now for the fourth ob-

Now for the fourth objection, where it is alledged that cold drink doth better quench the thirst, I have in the beginning of this treatise so fully handled that point, that it were a frivolous thing to trouble the reader with any thing more concerning that matter; and therefore I will recite the fifth objection.

Which is, Cold beer helps concoction in the stomach. How untrue this is, I will plainly shew: All cold is an enemy to concoction: but drink not actually made hot is cold: therefore drink not actually

ally hot but cold is an enemy 'needs to concoction, and therefore worki

helpeth it not.

My minor I prove out of Aristotle in the fourth book of his meteors. These be his words, Frigus quatenus frigus est cuicunque calori concoctioníque adversarium, est & cruditatis parens, Cold in its own nature is an adversary to whatfoever heat and concoction, and is the parent of crudities: and Galen primo Technic. faith, Frigidi est officium bene appetere, male autem digerere, It is the nature of cold to affect powerfully, but to digest poorely: And further feeing concoction is performed by warmth, it must needs

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emy needs be decayed by often fore working upon cold: for mark but this infallible argument and you shall easily see the truth: Every agent doth also fuffer it self something in the action, so as naturall heat daily and almost hourely expugning the cold drink taken into the body doth every time fuffer something, and so in small time doth wax weaker and weaker. How true this is daily proof doth make manifest: for how many mendo you fee after they come to five or fix and fourty years, or at the most fifty, troubled with the stone and gout, who were not before? which happeneth upon no other cause but

but ob debilitatem stomachi, tate so by reason of the imperfect. savou nesse of their stomach, the t which having long suffered out in his daily action with the cold, is now become infirm. other

Sixthly it is alledged, cold drink is pleasing to the tast, and so is not the other: which truly if it were true might feem a reasonable cause why we should (if imminent danger of inevitable hurts did not depend on the use of it) addict our selves to take it cold. But how false this is let Aristotle witnesse in his 3. book De anima, the 10. chap. who disputing of tasting faith Est ipse sapor qui gustu percipitur: atqui nihil ab (que humidi-

the t out fense other fius e aut ac very self s it act in an gusta eft & fius i nequ non p re, B thing that

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achi, tate saporis efficit sensum, It is favour which is perceived by rfect. ach, the tast, but nothing withfered out humidity makes any fense of savour : and in anthe other place, omne quod ipfirm. sius efficit sensum humiditatem cold aut actu aut potentia habet, Etaft, very thing that maketh it hich ight felf sensible hath humidity in it actually or potentially: and why in another place, At verò cum dandid gustabile sit humidum, necesse est & instrumentum sensûs ipf it) sus neque humidum ese actu, ke it neque etiam tale ut bumectari is is is 3. non possit humidumque evadere, But seeing every tastible hap. thing is moist, it is necessary Saith that the instrument of that cipisense be neither actually nidimoist, tate

moist, neither yet such as cannot be made moist: whereby is plainly proved that tast consists not in coldnesse but in moisture: And therefore it is said lapides & gemma carent sapore, stones and pearls have no tast, quia carent humiditate: Indeed cold rather diminisheth, then addeth any thing to taste as may be seen in winter either in wine or beer being very cold: for according to Aristotle cold is rather qualitas tangibilis quam gustabilis, a tangible then gustable quality: but if any at the first do not like the tast of hot drink, it is onely for want of use, and that by experi-

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rice ence I find, having used it almost a year and a quarter before the writing hereos.

But as concerning the feventh objection, which is, that cold drink nourisheth best, in respect that heating of the beer passeth away its finest spirits; I thus answer: Beer having fustained a great boyling, those spirits which remain in it after that boy ling, will not part with fo fmall a heating: and of that I have made this experience; I have taken a kettle with a broad mouth and therein put three pottles of beer, & have boyled it half an houre to a gallon, and then I have fet it in a pot with a limbech, and

I have drawn from it asor reason much aqua vita as I could ection from a gallon, which was im-toncer mediately put out of the on) y barrel into the pot: which hing a absolutely overthrows that Not objection. Yet if it had not can ma been to, our drink could not where have received any blemish: greater for first it is not in any open to whi veffel, and fecondly it never it mak boyls. But seeing it holds in quan in the greater, of necessitie it turall is not to be doubted in the stomac lesser; for a majore ad minus openin is a good argument. one to

But now to the eighth and of hot last objection: which is, That cannot it opens the pores too much or less and maketh one catch cold: which Although there be little sense it in e

or

it asor reason to maintain this obould ection (neither indeed can I s im-conceive any colour of rea-thelon) yet I will reason somehich hing against it. that Nothing joyned to his like not can make an extreme, but not where the thing joyned is in ish: greater degree then the thing pen to which it is joyned, nor can ever it make it greater unles it be olds in quantity. Therefore if naie it turall heat which is in the the stomach do not by too much inus opening of the pores cause one to catch cold, the heat and of hot drink as we drink it hat cannot: because it is as little uch or lesse then the heat to ld: which it joyneth. For were nse it in extreme or hotter then naturally or

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naturally the stomach should your so be, we could not drink it. Fo shall s otherwise why could we not is a vi drink any thing scalding hot nuate therefore it diminisheth cold. none and addeth little, but most e warmth it can give no occa- world fion of offence; for if this And f were otherwise, wherefore do we commend hot broth, or eat hot meat, which in respect of his groffenesse keeps The hu longer hot, and likewise advise exercise, but because naturall heat should purge ani-mam per poros cutis & ductus cold d convenientes, that is, the bloud the fix through the pores of the skin to be and convenient passages:but quire. leave off before you heat body,

use

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oul your felf violently, and you t.Fo shall never catch cold: for it e not is a violent heat doth extehot nuate and make way for sheth cold. And therefore it is , but most evident that it suggests tural not the least cause in the occa- world of that inconvenience. this And so much for this point. efore

CHAP. IIII.

keeps The hurt that ariseth from the ad- use of actuall cold drink.

o aniNow it remains that we do shew the hurt that luctus cold drink doth procure, as bloud the fixth position by order eskin to be intreated of doth res:but quire. That it helps not the heat body, before is proved, but

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that it hurteth all and every I will principall part shall now be prove shewed. We will divide the to the body of man into three parts res in or sections, the head and that Apho therein contained; the breast Frigie and all therein contained a that is bove the Diaphragma; and all the tee that is contained in the ven- addes treinferiore: But cold drink seeme hurts all these, therefore my the on first position is true, viz way That it hurts all the princi-exting pall parts. And because I will the ot make it more manifest, I will from t particularly speak of every inserte feverall thing, first beginning teeth: with the head, and the least proble offences: and because the mate, teeth are the first instruments contain

we use in receiving our food, tenuit a

very I will first speak of them. To w be prove that cold is an enemy e the to them, I produce Hippocraparts tes in his first book and 18. that Aphorisme, where he saith, reast Frigidum dentibus inimicum, ed a that is, Cold is an enemy to nd all the teeth, where although he ven addes not the reason, yet it drink feemeth to be for two causes: e my the one, because it taketh aviz. way their nourishment, as rinci-extinguishing their spirits; I will the other, because it alters I will from their nature the nerves every inferted in the roots of the nning teeth: which Aristotle in his e least problems doth seem to intie the mate, when he faith that they ments contain but little heat propter food, tenuitatem meatuum by reafon

fon of the narrownesse of the passages, and therefore are eafily overcome with the coldnesse of the bier : for you must understand that into the hollownesse of the teeth there come finews à tertia conjugatione, and also that divers finall veins and hairy arteries do branch in the inward part of the teeth, whereupon divers times the teeth being bored bloud iffuethout. There is also inwardly a thin film or membrane, which in no fort canindure cold, and yet will be cut or filed without feeling; because the one is imparted to the uttermost part, theo. ther to the root and hollownesse.

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nesse. If then bier in respect of actuall coldnesse be such an enemy to the teeth, which Nature hath provided for fo many good purposes, as first, to divide our meat and to prepare it for our stomach; fecondly, to be a means to articulate and grace our speech, whereby it comes to passe that those that want their teeth cannot bring forth R nor S; thirdly, to be an ornament and beauty to our face and countenance: for want of the teeth caufeth the mouth to fall in with an undecent relapse of the lips into the hollownesse of the mouth. If I fay there were no more but this, it were fufficient

ficient to think it too too un. fit for a man to use.

But to go further, I will prove it is hurtfull to the tongue, to the jaws, to the passage which we call asophagus, the high way unto the stomach, and so by that means to the brain it felf: not taking this polition for my defence, that cold is, and fo it may be interpreted outward cold, but that the actuall cold of drink taken into the body. And this way I proveit: The tongue is made first of sesh proper and peculiar to it felf, and also of a thin membrane or skin, commonto the rest of the mouth, three pair of finews, and many v mof fine and juga the mou forn men and war tum the bon brar cava of fron whi

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jugation. Oe sophagus, which is the passage between the mouth and the stomach, is formed and made of two membranes proper to it felf, and covered with a third out-

wardly, ligamentis vertebratum prognata, sprung from the ligament of the backbone, of divers veins and branches coming from vena

cava & coronaria ventriculi, of divers arteries coming from aorta, the noble artery which feeds all the body ri-

fing out of the midst of the heart, and of finews from the

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fixth conjugation called 5tomachici; glandules likewise it hath, and two muscles. Now Hippocrates saith frigidum esse inimicum nervis, Cold is an enemy to the finews, and to the marrow of the back, and generally to all fpermatick parts, of which condition and state the brains are: If then cold be an enemy to the finews, and the tongue, and the high way to the Romach formed of finews; and if without the action which is performed by those finews, there can be no perfect working, who can deny but drink taken actually cold, hurting and being an enemy to the finews, is offensive to the tongue

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tongue and those other parts Stofe it compounded of them? For although it cannot be denied low but the muscles strike a stroke 2 este s an also in their motion, d to they being made ex nervis, fibris tendinibus, carne vena, & and arteria, and the finews which tick are divaricated into the muftion : If cles being partes sine quibus fieri non potest motus, that is, the parts' without which there and can be no motion, any ofnach d if fense committed to them must needs be hurtfull to all h is the rest. ws, ork-

But some will say, Grant that this is so, which way do you make good that the brain suffereth by this?

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controversies aside, and not allowing Aristotles opinion in his 3. book De historia animalium, nor in his book De somno o vigilia, nor De respiratione, nor Alexanders opinion in his book De anima, nor Averroes in his fecond Colledge, nor Avicens doubtfull opinion which he holds tertio de animal. pag. prima primi; but affirming with Hippocrates and Galen that all finews take their beginning in the brain(whether in the forepart or the hinderpart, is not here a matter pertinent) I say that offence being done to them in the mouth, so near to their root, is imparted ad radicem, and

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fo consequently to the brain: for I acknowledge two fenfible feelings & impartments, as I may term them, in the sinews: the one, peculiar to the part to which it doth ferve; the other, common, and fpread through the whole body: and by it is the brain hurt, between whom is fuch affinitie, that the inward part of the finews is white and foft, almost like unto that of the brains. And therefore divers times Riafro de villa Franca doth affirm it the occasion of the Apoplexie. Again, it may be proved it breedeth a frenzy, both proper and improper, by stopping the passages of choler,

septum transversum per nervos

in ipso dispersos, as Paulus A-

gineta affirms, it inflames it. & to causeth phrenitis spuria; and divers times striking up to the head per venas & arterias, it inflames the meninges of the brains, and fo causeth an exquisite phrensi. Which plainly is proved by Hippocrates, where he faith in his 4. book and 17. aphor. white Urines be dangerous; the reason whereof is, because choler in respect of those obstructions is ascended to the head, which otherwise would descend into the pasfages thereunto destinated by Nature. And of this I know

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know many examples, and not long fince suffex (where I dwell) at a place called Marfield, an hammerman coming in hot and drinking cold drink fell mad, and within short space fo died. Furthermore although it be a sufficient argument to prove it hurteth the eye-fight and the hearing, because it hurteth the brains; yet I will more particularly prove it. For although the body of the eye be compounded of many parts, as of fix muscles, fix films or skins, three humours; yet it is also compounded of finews, veins, and arteries, which come à juguthese both the visible animal

and vitall spirits are carried to the eyes, as may

well be proved by their de-

fect in those that be dying or use women too much: Then thus I reason. Whatsoever decayeth concoction destroyeth all those, and so confequently the eye-fight and hearing: for Depravata concoctio in stomacho, as Galen faith, nunquam corrigitur in bepate neque in aliis: stomachus enim est materia omnium agritudinum, Bad concoction in the stomach is never mended in the liver, nor in any other part: for the stomach is the cause of all diseafes. But

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But that cold drink doth spoil and destroy concoction, shall be proved as it cometh by order to be handled.

The hearing also it must needs offend; fo as although fome that have no great dulnessethink it cannot be, for that they heare well; yet no doubt if from their infancy they had used the other, they might heare better. For compare his hearing that heareth best, and you shall find other creatures hear better then he. But to our purpose; seeing it is before proved that it hurteth the organa vocalia, that is, the mouth, the tongue, and asophagus, in respect of the finews; it must needs follow

that it also hurt the hearing. For the finews of the first conjugation do spread into many branches: the greater whereof go into the eare, and the membrane of the exquifite sense, & carrie all founds. to the brain; the lesser, to the tongue and larynx, in respect whereof, by reason of the fympathy, the hurt of the sinews of the tongue is imparted to the ears. Hereupon it comes to passe that those that be dumb be also deaf; and those which naturally be deaf, be alwaies dumb; and he that cannot heare by any outward found, let him hold athing in his teeth and he will heare. Which is used for

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a proof amongst excellent physicians, to try whether the fault be in nervo auditorie: though I am not ignorant that there is Altera causa societatis veteribus incognita, nempe canaliculus cartilagineus velut aque-ductus, qui à secundo auris meatu ad os & palatum fertur, Another cause of society or sympathic between them unknown to the Ancients, to wit, a little griftly cane, as it were a water spout, which stretcheth from the fecond paffage of the eare unto the mouth and palate, acknowledged by all anatomic-Masters.

Now to passe downward along the throat, it is one of the

the greatest occasions that in q is of a most dangerous dis. stoma

ease proper to that part, and le a/) that is the squinancy. For of as Ætius fol. 399 . reckoning di- nerve vers causes of that disease, u- to the seth these words, Maximi affect autem frigiditas & frigidi potio magis quam ardores plaga, & offa, &c. Especially cold, and cold drink be the occasions of that disease above all Where although Atius giveth not the reason, yet I conjecture it is for two causes: the one, ob constructionem, and the other, because it hurts and distempers the nerves ferving for that part: cold

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s that in quibusdam nervis qui ad as dis. stomachum deferuntur dum mat, and le afficientur, That the cause For of a fecret squinancy is in the ng di- nerves which are carried unife, u- to the stomach, they being ill exime affected. But to passe further, let us di poolaga, examine what hurt it doth

to the lungs: Arnoldus de cold, ccasi- villa nova in his Regimine fanitatis, hath this faying, Geve all neraliter malum est sanis bibeough re multam aquam frigidam, afon, quia extinguit calorem innartwo ructi- tum & pectus offendit, Genecause rally it is evil for found bos the dies to drink much water part: cold, because it doth extines to guish the naturall heat, and im esse offend the stomach.

Again, in another place hel wasr faith, Pro canna pulmonis cacold veant à potibus actualiter frithere gidis, which is as much to ing o fay as, In respect of the pipe cool of the lungs beware of drinkveins ing any thing cold. Again and Paulus Ægineta saith, Frigida and nocent pulmonibus, actu the w Things drunk cold hurt the drin lungs: and Galen faith it is beca fuch an enemy to the lungs certa and breast as many die there-

by. But peradventure some will object, that Galen meant of the coldnesse of the aire, and not of the coldnesse of drink. But to reclaim all men out of that errour, I will make it manifest that it was

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was meant of things actually cold taken inwardly. And therefore Hippocrates, speaking of yee and snow used to cool wine, faith, it breaks veins and procures coughs; and Galen in his book of good and bad nourishment doth shew that he meaneth cold drink taken into the body, because he doth seem with a certain distinction to grant it to some; yet to drink it, faith he, over-cold or cooled with fnow breedeth infinite forts of hurt. And although strong bodies do not feel it presently in the heat of youth, yet when youth declines they begin to feel it in their joynts and other parts

of their bodie when there is shews no help.

Philo

But because, as the faying lopons is amongst Lawyers, Lex plus expen laudatur, quando ratione pro. Unde batur, that is, The law is drink most praise-worthy when it mean is proved by reason, so is take physick; and therefore I will some shew how the drink passeth becau to the lungs, and how paffing way thither it hurts and offends; fore not taking any notice of Hip- recite pocrates in his 4. book De simpl morbis, where he useth many tatiba reasons against it, nor yet but s of Aristotle who contends doth for the contrary. But Hippo- terie crates well understood doth his m not contradict the truth, as mand in many other places he roug

shews,

warm drink nere isshews, and all other ancient Philosophers, as Plato, Phifaying loponus, Locrus, Plutarch, and ex plus experience it self confirms. e pro. Understand then when I say aw is drink goeth to the lungs, I hen it mean not all the drink we fo is take into our mouth, but I will some portion thereof: And affeth because I am to shew which affing way it paffeth thither, thereends; fore I think it not amisse to Hip-recite a place of Galens De k De simplisium medicinarum faculmany tatibus, where he denieth not r yet but some part of our drink rends doth passe by the rough ardoth his methodus medendi he com-, as mands that in ulcers of the s he rough arrerie we should lye along ews,

along on our backs, and hol fand the medicine in our mouthes nel r whereby it might by littl or w and little go into the rough it co Hippocrates in his doth book Tise? response doth in plain his be words teach that some por drink that way. These be his so m words, Homo, inquit, maxi. the fi mam partem in ventrem bibit: a lid Gula enim sive stomachus velut will infundibulum potus copiam & quan quecunque volumus excipit: autho bibit autem & in guttur ac ar. onely teriam; minus verò, & quan. drink tum latere possit per primum but a illapsum: operculum enim exa- wit, p ctum operit, ut ne permiserit ing to

quidem aliquid amplioris po. glotid fand

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d hol fand or the stomach as a tunouthes nel receivesplenty of liquour littl or what else we will; whence rough it comes to passe that a man in his doth drink the most part into plain his belly: but he doth alfo ne por drink into his lung-pipe or paffe rough artery, leffe indeed and be his so much as can slide in, in maxi. the swallowing; for so exact bibit: a lidde doth cover it that it s velut will not fuffer any great am & quantity to enter. By these cipit: authorities now you do not ac ar. onely learn that part of our quan. drink doth passe to our lungs, imum but also by what passages, to n exa- wit, per asperam arteriam, bemiserit ing taken in per rimam epi-ris po-glotidis. It is therefore to be wea-understood that our windpipe

4. Ma B.

pipe, being called aspera arteria in Latine, hath joyning to the toppe of it, next to the mouth, a certain stopple, as it were, formed of divers muscles, finews, veins and arteries, called Larynx of our anatomy-Masters, whose uppermost part hath a covering formed like a little tongue, which stoppeth it that nothing we eat can defcend into the wind-pipe; for when we offer to swallow any food it bears upon that, and to stops it the closer: But when we drink, fome little quantity of liquour slides in between the chink:

It may be fome unlearned will fay, What is this to the lungs?

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lungs? I answer, from thence it goes to the lungs: for to omit that aspera arteria is cartilazinea semicirculariter, as not appertaining to this treatise, I am to shew you how it is clothed duabus tunicis, quarum altera interior est a sophago, lingua, palato, & ori communis; altera exterior magis tenuis: Hac arteria ubi ad jugulum pervenit, bivio distractain pulmonem, numeroså serie spargitur inter venam arteriosam, & arteriam venosam media, that from that it may draw bloud, and into this transmit aire: And by this means doth the drink taken into the rough artery enter the lungs. Neverthelesse peradventure

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adventure some will say, grant all this be true, yet why doth cold drink hurt the

lungs?

I answer, for divers causes: but one effectuall cause here to be mentioned is, because it is contrary to the temper of the lungs; for the lungs be hot, although Hippocrates in his book De corde feemeth to affirm the contrary:for it is but comparative in respect of the heart. Nor do I respect some other places both of Galen and Hippocrates touching that point, and therefore here I omit them, as not appertaining to this place, affirming with some of our late writers the lungs

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to be hot, being nourished with the most aeriall and spirituall bloud elaborated in the right concave of the heart.

Furthermore cold drink hurts in another respect, for that the lungs be easily assected with obstructions and phlegmatick humours: which all come à frigidatemperatura, that is, of cold. By this may the Reader see how cold drink doth hurt to the lungs, that he needs not rest satisfied onely because Galen so saith, but because reason perswades.

Now it follows to prove it an enemy to the stomach; which if we do, considering

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the stomach is radix corporis, which nourisheth the whole body, as Hippocrates saith, I hope there is none so obstinate but will adjudge it worthy the forbearing. Therefore concerning this (because it falls out here in course to be spoken of) I will adde something not spoken of before.

Understand then that drink actually drunk cold, is not hurtfull to the stomach in one respect onely, but in divers. First, in respect of the composition of it; Secondly, in respect of the parts that depend upon it; Fourthly, in respect of our

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In respect of its composition; because it is compounded ex tunicis, venis, arteriis, & nervis, to which cold drink is the greatest enemy: witnesse Trincavell, in his first book of his counjels, his xxxix. counsel, where he hath this faying, A cervisia frigida prorsus abstineto, quia maxime nocet nervis.

2. Inrespect of its temper, because naturally it should be warm; as may be feen by the provident care of Nature, placing it sub Diaphragmate, which not onely by his own proper heat, but also with a forrein heat borrowed from the heart, doth D4 warm

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warm it. It hath also on the right fide, the liver; on the left fide, the spleen; in the lower part, omentum & colon intestinum having plentie of fat; and in the fore part epiploon, with the help of peritonaum, and the muscles abdominis, & vena umbilicalis are to it a covering: in the hinder part there are the muscles of the back, and last of all a great branch of vena cava and the great artery: which all shew that Nature hath incompassed it round about, like a caldron, with fire. How fond a thing is it then to cool that which nature would have warm, and how contrary to the health of man?

Thirdly,

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Thirdly, in respect of the parts that depend upon it, it is very prejudiciall, as shall be shewed. And first to begin with the head; the stomach never fuffereth in any small degree, but the head beareth his part also: so the offence done to the one is committed to the other. Which happeneth in respect of the great community of those great siwhich come à sexto news conjugio, from the brain unto it. That this is true, although it be so well known to men of learning that there needeth no proof, yet for the better fatisfaction of the unlearned, let them but weigh these instances following. First,

First, the stomach being bur troubled with melancho. ly you shall see the brains participate of the same: so the stomach never suffereth hunger, but it doth lacessere cerebrum vibratis nervis; yea, fuch is the communion between them, that neither the one nor the other doth hardly fuffer, but conjunctive, toge-For let the head be ther. wounded, and the scull be broken, whereby dura mater is but exposed to the aire, or let any thing but presse it or the brain, and presently the stomach will vomit aut flava aut aruginosa; because the stomach jure societatis is drawn in sympathiam per similitudi-

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nem & vasorum communionem : which be the chiefest ns par- causes of sympathy, as Galen in his comment ad Sect. 1. lib.

31. Epid. doth well note.

re cere. The heart suffereth likeyea, wife by communion, as may be feen in cardiaca passione, that is, fwounding, Syncope, and the utter exclusion of all strength; which cometh diverse times, the mouth of the stomach being ill affected, as if the heart it self were.

The meseraick vains also fuffer, being by cold stopped, and so made unable to draw as naturally they should; and thereby is nourishment hindered. It doth for the like respect and cause hurt the liver:

liver: for, as Galen 1. De

Symptomatum causis, doth excellently shew, and Andreas Laurentius doth notably explain, exhaustus partium is chiefly necessary to nourishment, and then their fucking and drawing. For the parts that be exhausted still draw from the next, untill they come to the last, which is the stomach: so that the meseraicks being stopt, the order of the whole body is perverted, and there either remaineth no appetite, or a preposterous one, for want of just feeling: Et bujus insensibilitatis causa, as Laurentius saith, est refrigeratio nervi, obstructio ejusdem, exfo-

lutio facultatis appetentis.

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But some will fay, let this be so; how prove you drink drunk actually cold doth ftop :

To make this clear heare what Arnoldus de villa nova faith in the Treatise he wrote to the King of Aragon for the preservation of his health; to whom upon some respects he granted both actuall and potentiall cold drink in the canicular dayes, having (as it feemeth) a strong hot stomach, but adviseth him to adde to it a little vineger: because, saith he, to those that have strait meseraicks, it is necessary: The reason was, because without vineger it

would stop. And in another place

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place he finderh fault with drinking of cold water; because, saith he, it is sluggish, & impedit omnem cursum, and stoppeth all passages. Trincavellius also saith, cold drink hurteth all that have obstructions and impostumes. Again, Galen De locis affectis faith cold doth spiritum vias & cursus impedire; and Aristotle faith, it doth congelare. Avicen 2. Cautic. tract. 1. cap. 4. faith, est etiam vitandus potus aque in mensa, water is to be eschewed at the table. Whereof Averroes expoundeth the reason to be, because, priusquam stomachus

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warm the meat, by cold water it is cooled and crudified. And Galen, knowing that cold water was stopping, caufed it therefore for the stone to be made hot (where he would have it to deoppilate) as before is alledged.

But it may be objected; grant all this you write is true, what is this to our beer which hath endured a boyling?

I an fwer, it is more vehement against our beer then water unboyled: and this is the reason. Water which never was boyled hath in it all its aeriall parts, which be both his warmest and finest parts, and most penetrable; and therefore if not to be drunk

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drunk when it hath them all, made hops drunk when they be gone. To demonstrate that it is bereft of them in the boyling, weigh but this: Take water boyled, and water never boyled, and fet them out in the frosty weather, and that which hath been boyled will first freeze: Which is because its warmest

But it may be objected, that although water will do fo, yet the composition of beer hats taken that away; and therefore beer is freed from that fault.

parts are exhaled out of it.

I answer, set beer and water ment out, & beer will freez as soon words as water. But let us look into grano the composition of beer: It is & mu

made

88 89 A treatife of mall, made of barley, water, and to be hops. Barley is cold in the e.To first degree, hops hot in the pereft second: now a thing hot in weigh the second degree, put to yled, double so much of a thing , and cold in the first degree, mafrosty keth but a temper : but if it hath did, this is nothing to the eeze: actuall cold, although it were rmest something to the potentiall: it. for it is the actuall cold we that stand on. And therefore waso, yet ter, beer, or what soever it be, r hath if it have but the positive derefore gree of cold, all is one. To our fault. purpose: Arnoldus in his regiwater ment of health, hath these s soon words, omnis cervisia ex k into grano est großior quam vinum, : It is & multum difficile ad digeren-made dum

dum facit oppilationes in visco than ribus, &c. All beer, faith he hat w made of grain is thicker the wheat wine, and being hard to di and n gest it maketh obstructions But in the intrals: what can be, I more plainly spoken to outhe st purpose ? Schola Salerni faith, ife ; it doth inflare & obstruergort: break wind and stop; which or do is as much as we endeavoundam for this point to prove. And rink because it shall be known that both howfoever you make you trink beer, yet it is stopping of indam felf, and therefore much the My n more drunk cold, note thefilife, diversities, that beer made on his l barley onely is most cold nothin that that which is made of these barley and oats leffe nourish terum visathand lesse stoppeth; and that aith he hat which is made with much er the wheat is more nourishing, to diand most stopping. uctions But to the last point, which can be, Drink taken cold into to on the stomach indamageth our i faith, ife; which I prove in this struer ort: Whatsoever is a decay which or downfall to our spirits, eavoundamageth our life: But cold . And rink taken into the stomach vn that loth so: Therefore cold e you drink taken into our stomach, g of indamageth our life. ach the My minor I prove in this fort: e thele life, according to Paracelfus, nade on his book Devita rerum, is cold nothing else but Spiritus: ade of these be his words, Vita ourisherum nihil aliud est quam et

thing else then a spirituall chis Cosence, an invisible fire, an imos, when palpable thing, a spirit, and spirit spirituall thing: and death inatifa no more then inversio viriumint & virtutum, the altering and ene c overthrow of our strengtheropo Seeing then our life is a spiri or the tuall thing, and spirits be the va food and nourishment digest spirits, as Ficinus in his bookmaket De sanitate tuenda doth wellpirits observe, my major must nelo, sho cessarily follow, that to be fold decay to the spirits is to abhereso breviate our life. My minor My viz. that cold drink take Wonta into the stomach doth decaptited:

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92 A treatise of essentia spiritualis, invisibilithes sp

ignis, impalpabilis res, spiritus pirits of spiritualis res, Life is no bloud

swisibilithe spirits, I prove thus. The spirits are ingendred of the is no bloud (and that Montanus in tuall chis Counsels doth take notice, an im of, where he saith in this sort, it, and Spiritus funt semper proportideath mati sanguini; nihil enim aliud viriument quam vapor sanguineus ing and ene concoctus, The spirits be rength roportioned to the bloud; a spirior they are nothing else but be the vapour of the bloud well ent digested) whatsoever then is bookmaketh ill bloud, maketh ill h wellpirits; and whatfoever doth aust nelo, shorteneth our life : but to be fold drink worketh that, to abherefore it shortneth our life. minor, My major is averred by take Montanus in the place before decaptited: My minor I prove in this the

this manner. God bloud scause made by good concoction and so but the actual cold in the stoteth of mach breedeth crudity and is fir not concoction, and that crusaith, dity consequently ill bloud quit therefore cold breeds illupia.

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bloud.

My minor I prove in thistore fort out of Aristotle, lib. 4in his Departibus Animalium, where Natura he saith, Calor wim habet concome coquendi, Heat hath the force But to concoct; and in his secondplaine book De generatione Animalianthoum, where he also saith, Frignobser est privatio caloris, Coldinature the privation of heat: who moist hindereth then but the conesse (clusion is good, That actual an content of the saith of the sai

cold drink breeding ill blowarifing

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loud scauseth a defect of the spirits, oction and fo confequently abreviathe stoteth our life ? For Galen in ity anhis first book De humoribus, hat crusaith, Virium robur adesse nebloud quit ubi crudorum humorum eds illopia coacervata est, that is, Strength can not be where in thistore of raw humours be: and lib. 4in his book De sub. Facult. when Natur. he faith, all actions ibet con come from concoction. ie force But to make it somewhat s secondplainer, I will use some more Animaliauthorities. Our life (as Galen , Frignoblerveth) doth confist in Coldinaturall heat and radicall whamoisture; which is nothing he conelse (as Avicen writeth) then actualan oyly unctious vapour blowarifing from the bloud: to

which Aristotle consentethand f This naturall heat, as Avicather i in lib. de complexionibus wri fonab teth is diminished two wayes conce Aut per resolutionem naturalis of suc humiditatis, aut per augmentum doth extranea, that is, Either by the o decay of naturall moysture, depri or by the increase of forrein, angu Now naturall moysture doth rause

decay either by the aire, in Which which we live, that drieth it well i up; or by labours of the body Talis or mind ill proportioned, as soncoo

he testifieth in his first book propag Fenic. act.4.cap.7. and forrein mot & moisture doth increase, either suis al

by the use of meats which by rescu their own nature ingender on n and breed it; of which for the I

are Mellons, Cucumbers, fort a and

entethand fuch like fruit, being ei-Avicather immoderately, or unfeas wrisonably eaten; or else of ill wayes concoction: by means whereaturalis of fuch an unnaturall humour mentum doth grow in our bodies, that her by the outward and remote parts ysture, deprived of their nourishment orrein anguish, wither, and dy, bee doth cause they are not nourished. ire, in Which Isaac de Febribus doth rieth it well note, using these words, body Talis humor per depravatam ed, as concoctionem à natura alienus book propagatur, ut externa & reorrein mota corporis partes, privata either suis alimentis, languescunt, exich by rescunt & emoriuntur, quia gender on nutriuntur. Hereby may h fort the Reader discern in what ibers, fort actuall cold doth offend and

our life: upon great confide ble, ration therefore did Avia won in his fourth book, Canone 4 and Capitulo, De rebus que canica rial emretardant, use these words con Digestio est radix generation mad naturalis & non-naturalis ha mar moris, that is, Digeftion is the chyl root of the generation of na mad turall and unnaturall moy-caut fture. mac

But some ignorant person the will fay, although the fto mach be offended, yet the conliver may make good bloud, use if so be it be not distemper us e ed.

To the which I answer, No pocr. more then a Cutler a good his blade of naughty iron, and dis, bad steel: which is not possi- cum ble,

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confid ble, be he never so good a Avim workman. For as the iron mone 4 and the steel, being the matee canica riall cause of the blade, cannot words contrary to their nature be eration made perfect in the workralis by mans hand: no more can the on is the chylus, first made in the ston of mach, being the materiall I moy cause of bloud, being bad be made perfect by the help of perfor the liver.

the fto By this now you fee how yet the contrary to our health it is to bloud, use actuall cold drink. But let emper us examine what hurt it doth to other particular parts. Hiper, No pocrates hath these words in a good his Aphorismes, Sedi, puden-

n, and dis, utero, vesica calidum amit possi- cum, frigidum inimicum, that

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ble,

is, Heat is a friend, but cold an enemy to the feat, the privities, the belly and bladder: And Cornelius Celsus faith, Frigidum inimicum intestinis, vesica, utero, &c. that is, Cold is an enemy to the intrals, bladder, and stomach. So, as it appeareth, it hurteth the bladder, the bowels and the kidneys, the mother, and what not: But because we will not conclude it is fo, because Hippocrates and Celsus fay it is so, we will examine, first, the reason, and then experience, the best master in trying any thing.

The reason why it hurteth the bladder is in respect principally of the neck thereof,

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which being stopped with a t cold musculeous substance cold e prioffendeth, and divers times dder: procureth a strangury. But faith, this will be thought very unstinis, true and unlikely, that drink Cold drunk cold can passe so to the trals, bladder, and there offend: So, as but let us examine experih the ence, and see whether it ever nd the have been known fo. , and se we

Forrestus, an excellent Phyfician, alledgeth in himself the cause of a strangury, happening unto him to the great indangering of his life, to be drinking of cold beer after his return out of Italy. And I know my self a gentleman of great worship (who because he is living shall not

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be named) who coming from hunting hot, and drinking cold drink, fuffered fuch pain, as I being with him did fear some erosion in the neck of the bladder. Besides it divers times cometh to paffe, that with cold this part suffering a refolution, the party can in no wife hold his water, but it cometh from him without his knowledge.

To the mother also it is hurtfull, as Hippocrates, Cornelius Celsus, and divers learned Authours write; whereofalthough they give not the reafon, yet I will shew it may be fo in divers respects: as first, in respect of its composition, being made ex tunicis, nervis, venis.

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stoo grea drinkd fuch e neck it dipasse, fuffeparty vater, withit is orneirned of ale reaay be first, tion, enis,

oming venis, arteriis, & ligamentis, to all which cold is an enemy as hath been proved before: im did Secondly, in respect of its temper, which naturally ought to be hot, because Injectum semen calore multo eget ut suscitetur, concipiatur, formetur et foveatur: Thirdly, in respect of its vicinity with other parts, as the bowels and the bladder, between which est maxima conjunctio per villos complures, to which cold is a great enemy: Whereupon feldome is the mother diseased, either by inflammation otherwise, but either an inordinate defire to go to the stool or of urine doth insue: so rvis, great is the affinitie between E 4

many irreparable diseases.

But some will say, that this is strange, although it be true that cold will work these effects in the mother, that beer drunk actually cold can passe to these places being so remote, and the cold can there be left or offend.

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But to confirm it by experience, these instances I have seen: About the yeare of our Lord 1590. I was with a gentlewoman one Mr Clarks wife of Jarcks hill in Kent, in whom, labouring of a cancer in her matrix, I tryed this experience, that giving her beer actually cold she would immediately be in the greatest pain in the world, but give it her hot and she felt Another woman none. dwelt in Houndsditch, at the figne of the guilded cup, feven years fince, who likewife labouring of a cancer in the matrix, if you had given her cold beer, it made her be in great pain, if hot, in

in nothing so much: By which it is evident that the beer did passe so cold, as that it gave a sensible feeling of the difference. And therefore it is not to be doubted but that the actual cold was an enemy, being so much more missisked of Nature then the hot.

Now let us examine by what means drink received actually cold hurts the bowels, according as our ancient physicians write: For my own opinion, I hold it hurts them many wayes: First, in respect it breeds crudity in the stomach, whereof groweth steam, which steam descending into the bowels breeds

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breeds intollerable collicks, and worms. Secondly, it breeds windinesse, which likewise is the nurse of extreme inconveniences incident to the bowels. Lastly fluxes, although non primario tamen jure societatis, that is, not primarily yet by right of fociety. Seeing therefore it hath been heretofore proved it is fo generall an enemy to our health, in hurting all and fingular our principall parts, I may well conclude with Aristotle in his fourth book of Meteors, Cold is an enemy to our nature: and fo by consequence drink drunk actually cold; and therefore to be eschewed. CHAP.

CHAP. V.

The benefit that ariseth from the use of actuall hot drink.

But now according to our promise we will shew the great good that ariseth of hot drink: and although in laying open the defects of drink taken actually cold, there is much spoken of the good that redounds to the body by the use of hot drink; yet because according to our determinate course it comes in order to be intreated of, I shall say something not before said.

First therefore it shall be proved it helps the stomach, and by that means the head,

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and by that means the liver, and by that means the bowels, and by that means the splene, and by that means the kidneys and bladder, and by that means the matrix in women, and by that means keeps back old age, and confequently preserves life. And although in handling of the defects which cold beer procureth unto all these parts, I have sufficiently by the hurt of the one laid open the help of the other, yet I will adde unto my first fayings new reasons, because I will not be tedious to the Reader, not renewing any authorities heretofore cited, but alledging Authours of no

no lesse moment.

Galen 3. Technic. hath this ther laying, Calidiora calidoiribus iudigent auditoriis, Things whose temper tends to warmth have need to use helps of the same nature: then thus I reason. The stomach is an office of warmth; Therefore it must needs be helped with warmth: agreeable to the which position is our beer made actually hot. Now to prove that the stomach being warm must be helped with warmth, and that it is not any way without hurt to be bereaved of his warmth, mark what Avicen. 3. Tract. cap. 5. intimateth: where writing of warmth in mans bodie

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bodie, he counselleth, nay rather forbiddeth, that no man wash his hands in warm water: because saith he, the heat is drawn out of the stomach by the warmth of the water, by which digestion in the ftomach is hindered, and that being vitiated, it is a means to breed & ingender worms. Which declareth how profitableit is to put our drink hot into our stomach, in refpect of keeping warmth there which by cold would be repelled: And our ancient physicians have been so jealous of decaying the warmth of the stomach, that they have forbidden us to stand near a great fire after eating, for

for the reason above named. bec In like manner, and for the same cause, doth Avicen forbid a man to walk fast after eating, Ne calor propter motum attrahatur ad partes exteriores, Lest the heat by stirring be drawn outwardly. How much more confonant is it therefore to reason to use warmth in the stomach, whereby naturall heat is increased, then to use things cold, whereby it is lessen. ed? And this Hippocrates in his Aphorisme which begins In byeme multus cibus, &c. doth make plain; who holdeth that in winter we can eat most meat: whereof Galen giving the reason saith, it is because

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amed. because the outward cold keeps in the heat in the stomach, and makes it stronger: And yet I remember Arnoldus De villanova, makes such doubt of cold, that he feemeth to take exceptions at Galens words, and faith, if the outward cold be great, it is necessary the stomach be well covered, naturally or artificially, or elfe it will weaken it.

But let us examine the reafon, how helping the stomach it helpeth the head: which thus I prove. Whatfoever is the means whereby the head is least oppressed with excrementitious matter, is helpfull to the head. But hot drink is fo: Therefore hot drink, &c. My

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My minor I prove in this ferve fort: Whatfoever fuggesteth storr least cause of unprofitable bein matter, is the cause the head with is least oppressed. But hot hot drink doth fo: Therefore hot tura drink is helpfull. The minor

thus I prove: What soever fortifyeth concoction fuggesteth least cause of unprofitable matter: But hot drink

doth so: Therefore &c. The minor is thus proved: Whatfoever preferves the stomach in naturall warmth fortify-

eth concoction: But hot drink doth fo: Therefore hot drink fortifyeth concoction. The miner is true: For what soever

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n this ferves the naturall heat of the esteth stomach: But warm drink itable being temperate joyneth head with the other: Therefore t hot hot drink preserveth the nare hot turall heat of the stomach. minor Now it is evident that the warmth of actuall hot beer is in no extreme, but after a fort contrary to both the extremes, and therefore temperate: For Montanus in his Counsels saith, Mediocria temperata funt ad sua extrema tanquam ad sua contraria, that is, Mediocrities are called temperate as well in respect of their extremes, as in respect of their contraries.

Now will I also prove that by helipng the stomach it al-

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fo helps the liver, in this fort: to n whatfoever washeth the stomach naturally, and keeps the meseraicks open, doth help upor the liver: But hot drink doth fo: Therefore it helps the liver. But before I prosecute the argument any further, I will shew how in performing that, it helps the liver; which it doth two wayes: First, because in washing the stomach and bowels it produceth inanition, which causeth appetite; which is a defire of new matter fit for new bloud: Secondly, because in keeping open the meseraicks it keeps the liver from any great obstructions, whereby it breeds warmth according

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is fort: to nature, and also brings he sto-continually good nourisheps the ment for the liver to work h help upon. And to prove this, k doth That hot drink doth fo, according as my minor requires, I produce Arnoldus De villanova, who writeth thus, Aqua calida stomachum lavat, & ventrem purgat, Hot water washeth the stomach, and purges the belly. And that heat doth this in respect of its actuall heat, let Avicen witnesse, who commending medicines for ulcerated lungs, wisheth they be administred warm, because of piercing; thereby acknowleding warmth to be the means of piercing.

Furthermore

Furthermore that drink actually hot, helpeth alfo the fplene, may eafily be proved: for that the liver receiving good nourishment maketh good bloud, and fo o. verchargeth not the fplene with abundance of matter to its grievance or annoyance.

Again, how by helping the stomach it doth good to the kidneys and bladder, I thus prove. Whereas the kidneys and bladder are subject to that grievous disease of the stone, hot drink is a means to withstand it, by two principall effects: the one, in that. it strengthens nature, whereby she frameth no moist cause fit to form that diseafe;

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t drink th alfo be proreceint mad fo o. fplene tter to yance. ing the to the I thus idneys ect to of the means prinn that . heremoist t dis-

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ease; it being most principally bred by a slimy matter, first hammered in a feeble stomach: the other in that it doth so scoure the kidneys and uriners by his actuall heat, as there can no slime remain untill it can be baked to a stone, although the kidneys were of the hottest.

And that this is approved by learned men, Arnoldus de villa nova may be president; who giving compounded waters, having a specificall diverting faculty of themselves, to pierce, commandeth that they be drunk as hot as they can be indured, because it addeth to their deoppilative virtue.

But

But to the other point, feet which is, That it helps the ons of matrix: Trincavell calls the furc matrix of women sentinam corporis; and hot drink being com give a means by strengthening the of t stomach to make every member do his office, as bematr thel fore is shewed, causeth the it ke lesse to be transferred thither old and so takes away all annoyance that may grow of any prol mino extraordinary superfluitie. It is also a means by its deoppiwhat cafic lating virtue to bring into nahaste turall course that which is nus l according unto nature to be faith avoided: And by these two means it is a principall occa-

means it is a principall occafion to make women fruitfull: who divers times by de-

full: who divers times by de-

being ng the every is beh the hither nnoyf any tie. It oppito naich is to be two occafruity defects

point, fects growing of obstructios the ons, and other grievances Is the of nature through much atinam furcharge of superfluity, become barren. Thus have I given you a tast how helping of the stomach, it helps the matrix. But for the proof of the last point, which is that it keeps back the defects of old age, and is a means to prolong life, let us call to mind what old age is, and what life; and upon what occasion the defects thereof are hastened or deferred. Ficinus lib. 1. De sanitate tuenda saith, Vitanostra est tanquam lumen in naturali calore, caloris autem pabulum est humor aerius, atque pinguis tanquam oleum:

oleu: so as sive humordesiciat netu sive prorsus excedat, sive inquitemp netur, statim calor naturalis de tas, bilitatur, & tandem debilitatus juve extinguitur. And another hear learned man writeth thus, our Tam din anima hanc molem in heal colit, quam din humorum de and fectus aut intemperies, misera morborum parens, non ingru-it: hincenim senectus que de-bilitat animi vires mutátque wri colorem, So long doth the foul neffe inhabit this lump, as the de- men fect of moistnesse, or distemnesse per, the miserable parent of diseases, doth not invade: for hear hence cometh old age, which difer doth debilitate the strength and change the colour. And and Vives saith, Quam din reti-tigat

netur,

though

leficiat, netur calor naturalis in corpore ralis de tas, & observabitur habitus pilitatus juvenilis, As long as naturall heat is reteined temperate in thus, our bodie, we continue our olem in health, and keep the habit um de and shew of youth.

misera Now the desects of old ingru-age are commonly as folqua de low; 1. Horinesse of hair, 2. utátque wrinckles in the face, 3.leanhe soul nesse of bodie, 4. defect of the de-memory, 5. generall weakdistem nesse of the whole bodie, 6. ent of bad fight, 7. thicknesse of de: for hearing, 8. much phlegme 9. which diseases of the lungs: If then I prove cold beer hastens these, and hot beer retards and mitigates them, I hope I shall be netur,

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thought to prove my affertion

First then let me consider col whereupon the hair takes its we alteration: The causes of the is p grainesse of the hair are, aut dot humor frigidus latens in poris, bre either cold humours lurking Se in the pores, aut ariditas, ut tily in segite maturescente, or dri- for nesse, as in ripe corn; aut de- laud bilitas virtutis, or weaknesse; be aut corruptio pituita, or cor- shou ruption of the phlegme : and not according unto Aristotle, cap. ther 2. De historia animalium, a m aliquando adventas nimii ca. weal loris externi, sometimes the in th accesse of too much externall inopi heat: All which to be produ- moit ced by actuall cold drink, T.

shall be proved severally. And

And first, That breeds onsider cold humours most that weakens the stomach: But it is proved that cold drink doth so: and therefore it breeds them most.

secondly, drinesse it mightily procures in this respect; for driant delaudable concoction cannot be made, the parts that should draw it do resuse it as not fit for them, and so wither for lack, and runne into a marasmus, which is a weaknesse of all the virtues in the body; which ariseth ab ternall inopia humoris, from want of moisture.

drink, That it is a means that ly. phlegme putrifies must ne-

farily follow: for ex debili ca- no lore fit putrefactio, from weaknesse of heat cometh putres?.

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ction; which that which is actuall cold procures, and so and necessarily hastens that the

fyinptome of old age. For the care is faid and the much use bef of fish to procure hoarinesse mu of hair for no other cause but me

for the reasons abovesaid. Then that it procures bec

wrinckles in the face doth consequently follow; for bod that they proceed, vel ex carne extenuata, either from the extenuation of the flesh;

vel ex carne vacua, or from caul emptinesse.

Leannesse of body follows; heat because plenty of spirits is this

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weak- Defect also of the memotref?. ry; because Nature fainting nich is can not serve all the senses, and so and so it draws nearer still to that the heart, neglecting the far-For thermost to maintain life:and ch use besides, because it breeds rinesse much phlegme, an enemy to fe but memory.

Bad eye-fight it procures; ocures because it causeth defect of doth the spirits; and because the ; for body abounding with much wel ex phlegme breeds thick spirits, from which make a dull fight.

aid.

flesh; Thicknesse of hearing; befrom cause ex debili calore multi torpores, from weaknesse of lows; heat ariseth heavinesse, and rits is this hinders the perfectnot

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nesse of hearing: and because it causeth scarcitie of spirits, which can not serve all the

fenses exquisitely.

Much phlegme, another defect of age, it causeth also, because it weakens the stomach and so is cruditatis parens; & excruditate pituita, the parent of crudity, from whence cometh phlegme.

Diseases likewise of the lungs; because Catharres be the companions of ill digestion: and so what with the stopping of phlegme, the lungs must needs suffer. And therefore the reason why actuall hot drink is said to mitigate all these, is because it doth

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doth fortificare digestionem, ex qua multiplicantur (piritus vivi, strengthen digestion, by which the vitall fpirits are multiplied; which being the pabulum of our senses, the one can not fail while the other increaseth. And therefore Arnoldus de villa nova faith, Dum Spiritus & calor naturalis non debilitatur, neque pili cane (cunt, neque cutis corrugatur, So long as the naturall heat is not weakened, neither doth the hair wax gray, nor the skin grow shriveled nor wrinckled. And how it is a means to preserve life shall be shewed.

CHAP. VI.

Herein is shewed how the Grecians and Romanes used hot drink.

NOw to come to the last point, which is, That it is no new devised thing, but that which hath been used amongst the Grecians and Romanes in the time of their longest age, and is in use at this day in countreys where they live farre longer then we do; which shall be proved by divers clear testimonies.

And first to prove it was in use amongst the Grecians, heare what Philostinus that excellent physician, wrote unto his countreymen: He

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counselled them in the spring and all winter to drink their liquour calidisimum, most hot; and in the summer lukewarm: so that at all times he shews that cold drink was not to be used.

Athenaus also in his eighth book, speaking of Stratonicus the harper, saith he called Rhodios, Cyrenaus branchos, and their citie, civitatem porcorum; quia Rhodios deliciis exsolutos, & calidum bibentes, contemplatus, albos Cyrenaus nuncupabat, Rhodium umque oppidum, civitatem porcorum: Rhodios quidem à Cyrenais colore diversos autumans, at ob luxus similitudinem, & proclivitatem eandem in

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He lled in voluptates, cum porcis urbem illorum comparans.

Moreover Julius Pollux in his onomastico propounds this question, Whether the ancient Fathers drank their water hot? and concludes they did: And Lucianus in his Asino writes that the Grecians used their drink hor; which Arrianus likewife in his controversies proves. Apuleus maketh the same manifest, speaking of Fotis in this manner; Ecce Fotis, meajam domina, cubitu reddita jacta proxime rosa ferta & ros à solut à in sinu uberante, acme pressim deosculato & corollis revinête, ac flore prosperso, arripit poculum ac deSuper rigit

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super aquà calidà injectà porrigit ut biberem , &c.

But for further proof, I will prove it both by ancient writers of profe, and also poets, that the Romanes used it.

And first Varro, in defining this word Calix by the Etymologie, faith it comes of the Latine word Calidus, because in it, Calidus apponebatur potus, Hot drink was served.

Paulus likewise the lawyer, speaking of the difference between the vessels that they heated water in, faith there is no great difference between Cacabus and Ahenum; for in the first they boil their meat, and in the other

other their water to drink: And *fulius Pollux* in his 9. book, calleth that vessel Ahenum where they boiled their water to drink.

Seneca in his first book De ira maketh mention of hot water, the which was in use to be drunk in his time: And in his fecond book the 25. chapter. Dion likewise in his 57. book proveth the same in the history of Drusius, son to Tiberius: And in his 59. book, intreating of Caius Caligula, who killed an host for felling hot water in the time of the funerall of Drusius, as a man irreligious to fell hot water for delicious drinking in time of common

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nmon rning. mourning. Moreover Marcellinus in his 28. book shews that all taverns were forbid to fell any hot water or wine untill foure a clock in the afternoon.

Again Cornelius Tacitus, writing of the poysoning of Britannicus, shews how the means they wrought to poyson him without suspicion was, to bring his drink so hot that he called for cold water to allay it, wherein they had put the poyson.

Plinie also in his 7. book, speaking of Marcus Asinius maketh it manifest: for, saith he, the drink being too hot, he held it in his hand to cool, untill one sitting next to him remembred

remembred him of it, and be n faid it would be too cold.

A

in ar Now to prove it by the fortl authorities of poets, I will Nept first begin with Plantus, who Edep in his comedy of The vaunting fouldier, faith, Lu. Neque for fr ille hic calidum exhibit in poster prandium. Pa. Neque tu bi- Nec bistie Lu. Dii me perdant si lumi bibi, Si bibere potui. Pa. Qui bet p jam? Lu. Quia enim absorbui; is, L Nam nimis calebat, amburebat art a gutturem; that is, Lu. Nei- I can ther did he drink hot wine to my cl his dinner. Pa. Nor thou: keep Lu. As god shall help me, I gives neither drank, neither could tion. I. Pa. What then? Lu. Isup-ny in

ped it; For it was so hot it vity burnt my throat. What can Hor

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, and be more plain then this?

Again the fame Authour in another comedy brings forth Labrax speaking to

Neptune in these words: La. Edepol, Neptune, es balnea-

or frigidus, Cum vestimentis posteaquam abs te abii algeo.

u bi- Nec Thermopolium quidem ulnt si lumille instruit , Ità salsa pra-

Qui bet potionem & frigidam: that brbui; is, La. Truly, Neptune, thou

arebat art a cold bath-keeper, Since Nei- I came from thee I freeze in ine to my clothes. Neither doth he

hou! keep any hotwater-shop, He me, I gives us so salt and cold a pocould tion. The like fayings be ma-

I sup-ny in Plantus which for bre-

not it vity sake I omit.

t can Horace also when he writes

A treatife of 138 to Telephus, in his third book Fam of his Odes hath this faying, Quo chium pretio cadum Mercemur: quis aquamtemperet ignibus : For Chian wine what men exact: Who'll our water to warmth redact. And Fuvenal in his fifth Satyr hath this faying, Te o - Quando adte pervenit ille,

gelidaque minister. When will anon anon Sir come,

Quando vocatus adest calida

For hot and cold to have custome.

Likewise Martial, in his verses he made to Sextilianus the great drinker, faith thus. Fam

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warm drink. book Fam defecisset portantes calda ministros. aying, Si non potares, Sextiliane, stemmerum. They had lackt hot water by this time, t men Had not Sextilian drunk wine. irmth And in his fecond book of Epigrams these be his words: fifth Te conviva leget mixto quincunce, sed ante tille. Incipiat positus quam tepualida iffe calix: The toffe pot will thee reade n Sir but that must be Onely untill his hot cup e cucool'd he fee. h his And in his 8. book against Cacilianus; these be his tiliawords: faith Fam Curre

A treatise of 140 Curre age & illotos revoca, Ca- Ye v

lifte, ministros, Sternantur lecti, Caciliane, But

lede. Caldam poscis aquam, sed non-

dum frigida venit : Alget adhuc nudo clausa cu-

lina foco.

Runne, call thy unwash't fervants, fit

Your couches, Cæcilian fit.

Thou call'st, No hot water within ?

Nor cold yet in our cold kitchin.

And in his last book, these be his words:

Frigida non desit, non deerit calda petenti; Sed tu morosa ludere parce siti.

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a, Ca- Ye want not cold nor shall ye hot;

iliane, But spare to please your

dainty throat.

By these authorities I hope I have made it plain, Sa cu- that it was used many hundred years amongst the Romanes. For if we confider the age that Plantus lived in, which was fome five hundred and seventy years after the building of Rome; and the poysoning of Britannicus in Nero's time, you shall find it to be 808. years after Rome was built: and Martial lived under Domitianus, 835. years after Rome was built,

which was more then 300. years. Neither did Plautus

write

write it as new devise, but as a thing long before inuse.

Now to the other point, ly all That it is used at this day a-the b mongst whole nations, I will satisf prove by Grovani Petro Maf my w fei the Jesuite, who in his 6. the tr book of histories writes that diver they of China do for the most with part drink the strained liquour of an herb called Chia hot. And Persino the Italian writes, that he faw himself tres principes Grapponenses, which came to kiffe Pope Gregorie the thirteenths foot (and it is but a little while fince) who drank nothing but hot water, affirming it to be the custome of their countrey.

Thus

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Thus have I according to but as ife. my promise handled severalpoint, ly all the points promised in day a-the beginning: if not to thy
I will satisfaction, impute that to Maf my want of reading, not to his 6. the truth of the cause, which s that divers times is overthrown most with ill handling.

FINIS.



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